



Intel® Celeron® Processor 3965U

2M Cache, 2.20 GHz

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Product Collection	Intel® Celeron® Processor 3000 Series
Code Name	Products formerly Kaby Lake
Vertical Segment	Mobile
Processor Number	3965U
Status	Launched
Launch Date ?	Q1'17
Lithography ?	14 nm
Recommended Customer Price ?	
Use Conditions ?	Industrial Commercial Temp, Embedded Broad Market Commercial Temp, PC/Client/Tablet

Performance

# of Cores ?	2
# of Threads ?	2
Processor Base Frequency ?	2.20 GHz
Cache ?	2 MB SmartCache
Bus Speed ?	4 GT/s OPI
TDP ?	15 W
Configurable TDP-down ?	10 W

Supplemental Information

Embedded Options Available ?	Yes
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	32 GB
Memory Types ?	DDR4-2133, LPDDR3-1866, DDR3L-1600
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	34.1 GB/s
ECC Memory Supported [‡] ?	No

Processor Graphics

Processor Graphics † ?	Intel® HD Graphics 610
Graphics Base Frequency ?	300 MHz
Graphics Max Dynamic Frequency ?	900 MHz
Graphics Video Max Memory ?	32 GB
Graphics Output ?	eDP/DP/HDMI/DVI
4K Support ?	Yes, at 60Hz
Max Resolution (HDMI 1.4)‡ ?	4096x2304@24Hz
Max Resolution (DP)‡ ?	4096x2304@60Hz
Max Resolution (eDP - Integrated Flat Panel)‡ ?	4096x2304@60Hz
DirectX* Support ?	12
OpenGL* Support ?	4.4
Intel® Quick Sync Video ?	Yes
Intel® Clear Video HD Technology ?	Yes
Intel® Clear Video Technology ?	Yes
# of Displays Supported †	3
Device ID	0x5906

Expansion Options







PCI Express Revision ?	2.0
PCI Express Configurations † ?	1x4, 2x2, 1x2+2x1 and 4x1
Max # of PCI Express Lanes ?	10

Package Specifications







Sockets Supported ?	FCBGA1356
Max CPU Configuration	1
T _{JUNCTION} ?	100°C
Package Size	42mm X 24mm

Advanced Technologies

Intel® Speed Shift Technology ?	Yes
Intel® Turbo Boost Technology † ?	No
Intel® vPro™ Platform Eligibility † ?	No
Intel® Hyper-Threading Technology † ?	No
Intel® Virtualization Technology (VT-x) † ?	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) † ?	Yes
Intel® VT-x with Extended Page Tables (EPT) † ?	Yes
Intel® TSX-NI ?	No
Intel® 64 † ?	Yes
Instruction Set ?	64-bit
Instruction Set Extensions ?	Intel® SSE4.1, Intel® SSE4.2
Idle States ?	Yes

Enhanced Intel SpeedStep® Technology 	Yes
Thermal Monitoring Technologies 	Yes
Intel® Flex Memory Access 	Yes
Intel® Stable Image Platform Program (SIPP) 	No
Intel® Smart Response Technology 	Yes
Intel® My WiFi Technology 	Yes

Security & Reliability

Intel® AES New Instructions 	Yes
Secure Key 	Yes
Intel® Software Guard Extensions (Intel® SGX) 	Yes
Intel® Memory Protection Extensions (Intel® MPX) 	Yes
Intel® Trusted Execution Technology ‡ 	No
Execute Disable Bit ‡ 	Yes
Intel® OS Guard	Yes

More support options for Intel® Celeron® Processor 3965U (2M Cache, 2.20 GHz)



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Refer to Datasheet for formal definitions of product properties and features.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

See <http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading> for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

For benchmarking data see <http://www.intel.com/performance>.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See <http://www.intel.com/content/www/us/en/processors/processor-numbers.html> for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.



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